



ACS Division of
Nuclear Chemistry
& Technology

Division of Nuclear Chemistry and Technology
American Chemical Society

NUCL Webpage – <http://www.nucl-acs.org>

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NEWSLETTER

February 2024

Newsletter Editor: Andrew Klose
Email: andrew.m.klose@gmail.com

Topics

- > FROM THE CHAIR
- > NEW DIVISION LOGO
- > UPCOMING PROGRAMMING
- > AWARDS NOMINATIONS COMMITTEE
- > NEW DIVISION LOGO
- > ANNOUNCEMENTS AND JOB OPENINGS

FROM THE CHAIR

Richard E. Wilson

Happy 2024. I hope everyone is having a great start to their new year and feverishly capitalizing on all the new research opportunities that are presenting themselves. I write now as the past-chair of the Division and leave the baton to Justin Walensky who I am sure will continue to do an outstanding job. As I rotate out of these responsibilities I am confident that the Division is being led by a very capable and passionate group of volunteers. I want to personally thank them for their dedication to the NUCL Division and its activities.

I know that in the new leadership the Division is poised to make great advances on behalf of our members! Please provide Justin and your executive team with your full support and gratitude for their hard work.

FROM THE INCOMING CHAIR

Justin Walensky

It is my pleasure to be the Chair of the NUCL division this year! Some of the goals that myself, the Chair-Elect (Annie Kersting), and Vice-Chair (Dustin Demoin) have for this year are to continue to update our website, work on DEI initiatives, and having more communication with members. To this end, we launched the Diversity, Equity, Inclusion and Belonging (DEI&B) committee which had their first brainstorming meeting recently.

We hope to see you at the Spring 2024 National meeting in New Orleans! It will be great to honor our Glenn T. Seaborg awardee, Ken Nash, for his brilliant career in nuclear and radiochemistry. We will also have sessions on Radiopharmaceutical chemistry, Radiochemical Separations, f Element Reactivity at Interfaces, Bridging Computational and Experimental Research, LGBTQ+ Research in Nuclear Chemistry (including two panel discussions from early career voices on Tuesday, March 19th from 2-2:40pm as well as all voices from 5:20-6pm in Room 338 of the Morial Convention Center), as well as a panel session on Artificial Intelligence (AI) and its Applications in Nuclear and Radiochemistry (Wednesday, March 20th, 2-4pm in Room 339 of Morial Convention Center).

Besides the great programming we have in the NUCL division, I wanted to point out that ENVR, ANYL, and AGFD have a session on Radiolabeled Metabolism Studies: Execution, Trends, and Challenges. In addition, the INOR division has a Lanthanide and Actinide session, as well as the F. Albert Cotton Award was awarded to my friend, Suzanne Bart, and some f element chemists will be giving talks in her symposia.

Please remember that our business meeting will take place on Tuesday, March 19th at 6:15pm following the panel discussion in T338 Morial Convention Center.

Following the business meeting there will be a reception at Gordon Biersch!

If you or someone you know has service to ACS, engaged in nuclear and radiochemistry-related research, then the NUCL division is looking for people to nominate as an ACS Fellow!

NEW DIVISION LOGO

Annie Kersting and Dustin Demoin

Thanks everyone who sent in their artwork for our logo competition. Martha Dibblee was our winner! The NUCL division now has a new logo in time to commemorate our 60th anniversary.



NATIONAL MEETING PROGRAMMING

**SPRING 2024 – New Orleans, LA
March 17 - 21**

Theme: Many Flavors of Chemistry

The 267th ACS National Meeting & Exposition will be held March 17 - 21, 2024 in New Orleans, La. Please contact Tara Mastren (Tara.Mastren@utah.edu) for more information. Below are the planned symposia for the meeting.

Panel Session/Contributed: Embracing Diversity in NUCL: The Many Flavors of LGBTQ+ Research in Nuclear Chemistry
Organizers: Tyler Spano (spanotl@ornl.gov), Brodie Barth (bbarth@nd.edu)

General Topics in Nuclear Chemistry and Technology

*Organizers:
Dustin Demoin (Dustin.Demoin@ezag.com),
Laetitia Delmau (delmaulh@ornl.gov),
and Teagan Sweet (tsweet@nd.edu)*

The Many Flavors of Radiochemical Separations

Organizers:

*Dustin Demoin (Dustin.Demoin@ezag.com)
and Laetitia Delmau (delmaulh@ornl.gov)*

Panel Session: Artificial Intelligence and its Applications in Nuclear and Radiochemistry

Organizers:

*Deborah Penchoff (dpenchof@utk.edu),
Charles C. Peterson*

(Charles.Peterson@unt.edu)

Theresa Windus (twindus@iastate.edu)

Sarah Finkeldei (sfinkeld@uci.edu)

and Ashley Shields (shieldsae@ornl.gov)

Bridging Computational and Experimental Research in NUCL

Organizers:

Ashley Shields (shieldsae@ornl.gov)

Sarah Finkeldei (sfinkeld@uci.edu)

and Deborah Penchoff (dpenchof@utk.edu)

The Many Flavors of Radiopharmaceutical Chemistry – from Academia to Industry

Organizers:

Ivis Chaple (ichaple@utk.edu),

Suzanne Lapi (lapi@uab.edu)

and Neil Vasdev (neil.vasdev@utoronto.ca)

f-Element Reactivity at Interfaces

Organizers:

Juilia Neumann (jneumann@anl.gov)

Amanda J. Carr (carraj@anl.gov)

Fall 2024 - Denver, CO

August 18 - 24

Theme: Elevating Chemistry

The 268th ACS National Meeting & Exposition will be held August 18-24, 2024 in Denver, CA.

Please contact Gian Surbella with questions regarding programming at the meeting

(robert.surbella@pnnl.gov). Suggestions on the location for the NUCL Division Happy Hour are also welcomed. Below are the planned symposia.

Computational Science Applications in Rare Earth Elements and Actinides

Nuclear Forensics

Young Investigators in Nuclear and Radiochemistry

General Topics in Nuclear Chemistry and Technology

ACS Seaborg Award Symposium Honoring Kenneth Nash

Spring 2025, San Diego, CA

March 23-31

The 269th ACS National Meeting & Exposition will be held March 23 - 21, 2025 in San Diego, CA. Please contact Tara Mastren (Tara.Mastren@utah.edu) for more information.

If you are interested in proposing a symposium or working with someone to create a new symposium at an upcoming meeting, contact Todd Bredeweg (toddb@lanl.gov). Below are the planned symposia for Spring 2025:

Computational Science Applications in Rare Earth Elements and Actinides

Radiochemical Separations

Spectroscopy & Synchrotron Techniques for Radioisotopes

General Topics in Nuclear and Radiochemistry

AWARDS NOMINATIONS COMMITTEE OF NUCL

Deborah Penchoff

The Awards Nominations Committee of the Division was formed to encourage and facilitate nominations for national ACS awards. Please nominate a colleague for one of the awards given below or another ACS awards

(<https://www.acs.org/content/acs/en/funding-and-awards/awards/national.html>).

Charles D. Coryell Award

Any undergraduate who has been actively doing research in the nuclear chemistry field in the previous year is eligible for consideration of the Charles D. Coryell award. To nominate a student for this award (which includes a certificate and a \$1000 check), please submit a sample of the student's work (in the form of a written report or a publication), together with a nomination letter from the research mentor that describes the extent and the nature of the student's involvement in the research. The nomination deadline is by June 1, 2024, and all application materials should be emailed to Deborah Penchoff (dpenchof@utk.edu).

JOB ANNOUNCEMENTS

US EPA's National Analytical Radiation Environmental Laboratory (NAREL) is seeking to fill a GS-13 Physical Scientist position in the laboratory's counting room. The announcement will be open to applicants from 2/09/2024 to 2/16/2024. A more detailed description of the position and a link for applying can be found at <https://www.usajobs.gov/job/775772600>

The Clemson University School of Civil and Environmental Engineering and Earth Sciences (SCEEES) invites

applications to fill a tenured/tenure-track position with a focus on Geo-Environmental Engineering. Candidates are desired with expertise in one or more of the following areas: subsurface transport and remediation of organic, inorganic, metals, and radioactive contaminants, radioactive waste isolation, geologic storage and production of hydrogen, geological carbon sequestration, subsurface energy storage, brownfield development, municipal, industrial, and mining waste containment systems, re-use of waste materials, and reduction of climate change and sea level rise impacts. A Fall 2024 appointment is anticipated with the position at the assistant or associate professor level. The successful candidates will have an earned PhD in Civil Engineering, Earth Sciences, Environmental Engineering, or in a closely related discipline. A more detailed description of the position and application details can be found at: <https://apply.interfolio.com/140357>

TerraPower Isotopes® is deploying innovative expertise to create the next generation of isotopes and to support the advancement of technologies with the potential to change the face of oncology treatment, and is seeking a Principal Radiochemist. A more detailed description of the position and application details can be found at:

<https://www.terrapower.com/contact-us/careers/#op-598112-principal-radiochemist>

Additionally, **TerraPower** is on a mission to build a highly efficient, low-cost and carbon-free energy solution to help utilities and industries reach decarbonization goals. We are seeking a highly talented and motivated candidate for the position of Principal Radiochemist to directly contribute and take leadership roles to fulfill this mission. A more detailed description of the position and application details can be found at:

<https://www.terrapower.com/contact-us/careers/#op-600177-principal-radiochemist>